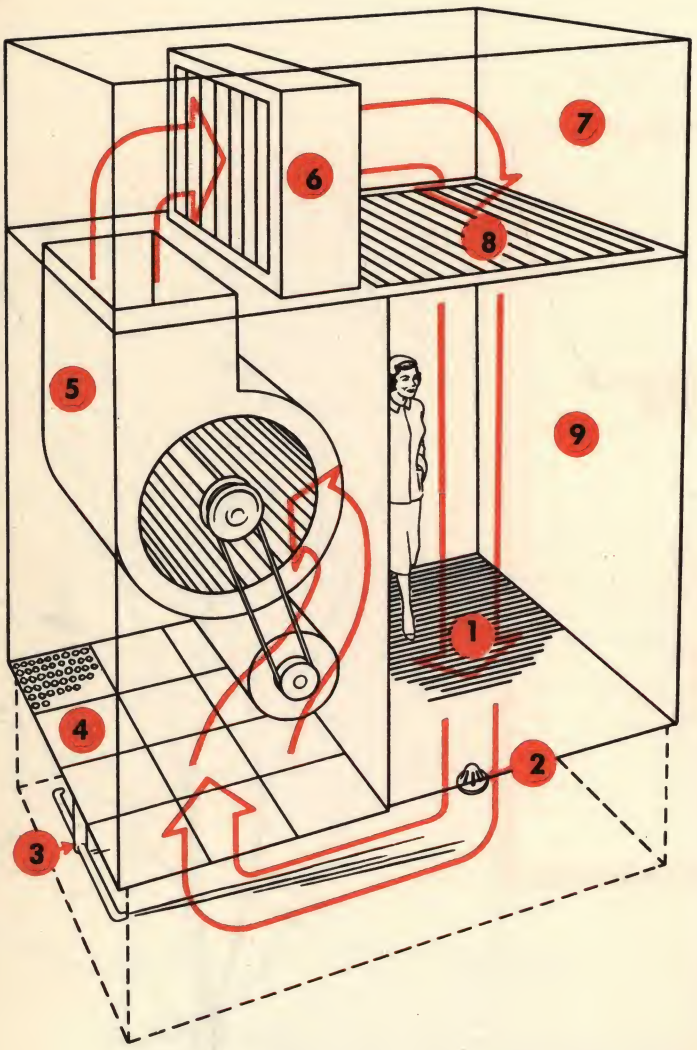
modernfold's

"AIR DOOR"

Open to traffic... closed to weather

AIR DOOR, INC. modernfold® Division of New Castle Products, Inc. New Castle, Indiana



Modernfold's "Air Door" completely eliminates the need for conventional doors during business hours. The result is a truly open door—one that literally invites people to enter.

Wind and weather are kept out by a gentle insulating barrier of air circulating within the "Air Door," while traffic passes freely through in either direction. The barrier is automatically adjusted to the proper angle for the existing weather conditions, and the velocity can be adjusted by a simple dial.

How the "Air Door" Works

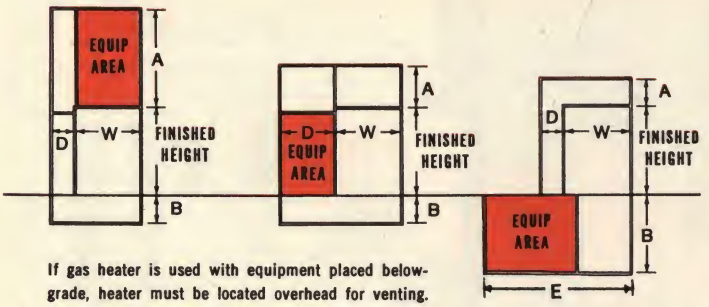
1. Air is drawn by the blower (5) through the floor grating (1) into the pit below.
2. When the air passes through the pit, heavier particles of dust and dirt fall to the bottom, where they are periodically flushed down the floor drain (2) by a solenoid operated water spray system (3).
3. From the pit, the air moves through a filter bank (4) which further cleans the air before it passes through the blower.
4. On leaving the blower, the air is directed through a heat exchanger (6). Cooling is **not** required in an "Air Door" installation under normal circumstances.
5. After passing through the heat exchanger, the air is forced into the ceiling plenum chamber (7) where it is distributed through the ceiling grille (8) into the opening (9)
6. Suction created at the floor grating by the blower draws the air from the opening through the pit to repeat the cycle and form a continuous, invisible barrier of air in the opening.

"Air Door" Sizes and Space Requirements

MODERNFOLD'S "Air Door" is a custom engineered package, available in six different opening widths. Each size is available with equipment placed in any of three locations to suit job site requirements, for a total of 18 basic units.

The charts at right list the various space requirements for each unit. Because of the custom engineering that goes into each "Air Door," minor variations are possible in many of these dimensions; however, the factory must be consulted before any changes may be made.

Doors having space requirements other than shown in chart at right can also be supplied. Many other problems can be solved on an individual basis—Consult the factory for help with any unusual situation you may have.



If gas heater is used with equipment placed below-grade, heater must be located overhead for venting. Write factory for space requirements.

	W	5′	6′	7′	8′	9′	10′
Equipment overhead	A	9′ 0″	9′ 0″	9′ 0″	9′ 0″	9′ 0″	9′ 0″
	B	24″	30″	36″	42″	48″	54″
	C*	70″	76″	82″	82″	88″	88″
	D	21″	23″	25″	28″	29″	33″
Equipment on-grade	A	42″	46″	48″	52″	52″	54″
	B	24″	30″	36″	42″	48″	54″
	C*	70″	76″	82″	82″	88″	88″
	D	56″	61″	65″	65″	69″	69″
Equipment below-grade	A	24″	30″	36″	42″	48″	54″
	B	96″	96″	96″	96″	96″	96″
	C*	70″	76″	82″	82″	88″	88″
	D	21″	23″	25″	28″	28″	33″
	E	135″	135″	140″	140″	144″	144″

*Dimension "C" is the depth from front to rear.

Installation Requirements

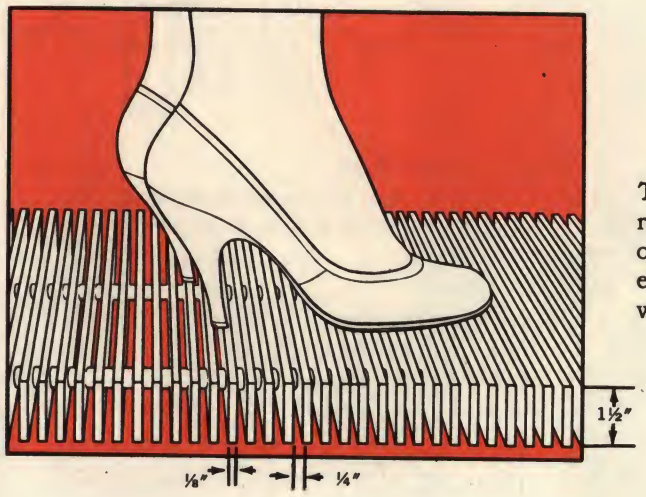
As part of the preparation of opening by owner, each MODERNFOLD "Air Door" requires a ½" iron pipe size cold water line into the pit area, 3-phase electric power service to the equipment area, and 110 volt 60 cycle single phase electric power service to the equipment area (this power supply will also accommodate an electric heating plant, if required).

When a gas fired heater is used, a gas line and vent grille into the equipment area, and a vent stack to the outside are also required. For steam or hot water heaters, supply and return lines are required in the equipment area.

Installation of the "Air Door" into the opening at the site, and connection to the services required, constitutes a completely operative unit with no other equipment requirements. Finish trim between the "Air Door" components and the building walls and floor, and security doors for night time and stand-by use (for example, local power failures or unusually severe storms) are not included.

Total installation time of a typical, 6'0" wide "Air Door" is approximately 80 man hours. This relatively short time is made possible by the extra services supplied by Air Door, Inc. Components of each unit are assembled, wired, and operated at the factory, then dismantled into three sub-assemblies that are crated and shipped to the site. They arrive in one shipment, ready for immediate and complete installation with minimum on-the-job servicing.

To aid in the planning of an "Air Door" installation, detailed data sheets have been prepared—write to the factory for a copy.

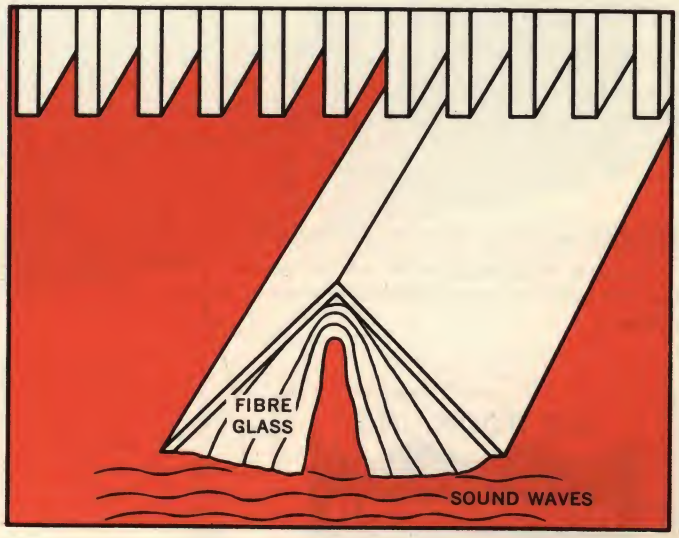


Efficient Grating Design

The "Air Door" grating is made of rugged, corrosion resistant aluminum bar stock, spaced with maximum openings of only ¼" to provide positive support for even the smallest high-heeled shoes—an original design with MODERNFOLD'S "Air Door."

Exclusive, Shallow Pits

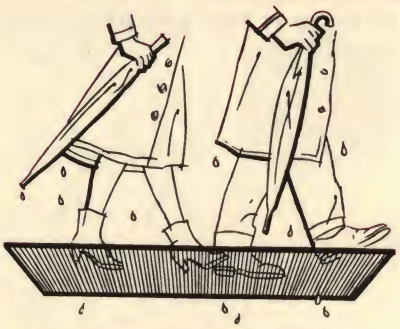
Pit depths of as little as 2' are possible with MODERNFOLD'S "Air Door" because of an exclusive, air trap feature (pats. applied for). Baffles under the floor grating prevent the circulating air from bouncing off the pit floor and back into the opening. As a consequence of "Air Door's" shallow pit depth requirements, preparation costs at the site are minimized, especially in remodeling work. In addition, acoustic lining in the baffles reduces the amount of sound emanating from the pit.



You get these BONUS BENEFITS with the "AIR DOOR"

KEEPS DUST, DIRT, INSECTS OUT

Merchandise stays clean because it's protected by the "Air Door" from dirt, dust and insects that pass through ordinary doors when they are opened.

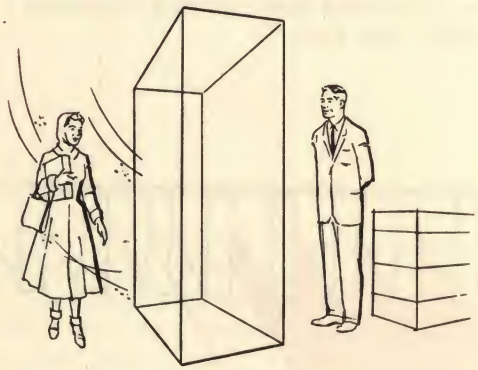


KEEPS ENTRANCES ATTRACTIVE

The heated air and warm grating melt ice and snow—help keep slush and dirt out for a cleaner, drier, safer entrance.

ELIMINATES TRAFFIC JAMS

The "Air Door" permits a safe, uninterrupted flow of traffic at all times—no waiting in line to get in or out, even during rush hours.



REDUCES HEATING OR COOLING COSTS

A continuous stream of air in the doorway provides an effective insulation barrier to prevent heat loss in winter or cooling loss in summer.

ELIMINATES DOOR ACCIDENTS

The "Air Door" eliminates the hazards of swinging and revolving doors . . . and safeguards your customers against the possibility of injury.

Form 1258

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AIR DOOR, INC.®

modernfold

Division of
New Castle Products, Inc.
New Castle, Indiana

Manufacturers of "Air Doors," "Modernfold" Folding Doors, "Modern-cote" Wall Coverings and "Peabody" School Furniture.

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